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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/626,551	07/27/2000	Shahriar Emami	CM03228J	9695
24273	7590	05/31/2005	EXAMINER	
MOTOROLA, INC INTELLECTUAL PROPERTY SECTION LAW DEPT 8000 WEST SUNRISE BLVD FT LAUDERDAL, FL 33322			NGUYEN, KHAI M	
			ART UNIT	PAPER NUMBER
			2819	

DATE MAILED: 05/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/626,551

Applicant(s)

EMAMI ET AL.

Examiner

Khai M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 April 2005 and 06 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 12-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. The indicated allowability of claims 12-15 is withdrawn in view of the newly discovered reference(s) to Beechick (US 5,218,700) and Crandall (US 5,999,949).

Rejections based on the newly cited reference(s) follow.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

a. Claims 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Beechick (US 5,218,700).

Regarding claim 12, Beechick discloses a method of sorting words/input data, wherein the method comprises a set of words (the input data from block 50 of Fig. 1), wherein the set of words is sorted into partitions (groups having common characters), and wherein each partition (group) having a common starting character is sorted by length of the words (see lines 5-11 of the abstract), and wherein each group/partition is identified by the common starting (prefix or first letter 'A' or 'B', for example) character

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and word length; and an index, wherein a starting location for each partition is stored (column 9, lines 55-58).

Regarding claim 13, Beechick discloses (Fig. 1 and column 1, lines 63-66) a method comprising: determining a set of words (from input block 50 of Fig. 1) that are included in a dictionary word list; sorting each subset of words having common starting character by lengths of the words (see the abstract, 'it groups words letter-by-letter...'), wherein each subset of the set of words that was sorted or grouped by one of the lengths is name a partition (or groups) and is identified by the common starting character (A or B, for example) and the one of the lengths; storing each partition/group at a starting location in memory; and storing (column 9, lines 55-58) an index of the starting locations for each common starting character and the ones of the lengths.

Regarding claim 14, Beechick discloses the step of sorting each set of words having a common starting character by lengths of the words (sorting letter-by-letter), the lengths of the words start at a minimum length (of one item, abstract) and end at a maximum length (column 2, lines 26-68), and include all integral lengths from the minimum to the maximum length, and wherein all words that are as long as, or longer than, the maximum length are in one partition/group (see the abstract, wherein: 're-grouping continues group by group and letter by letter until the entire list is sorted').

b. Claim 15 is rejected under 35 U.S.C. 102(e) as being anticipated by Crandall (US 5,999,949). Crandall discloses a method of compressing a data file (see the title) using tokens (Crandall used the term 'words') that identified symbol strings stored in a dictionary, comprising: determining that two successive symbol strings in a

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data file are represented by two tokens/words that are not necessarily different (column 5, lines 26-49); determining that the two successive symbol strings ('abc' and 'xyz') are separated only by a space ('sp'); and encoding the two successive symbol strings in a compressed data file by arranging the two tokens/words adjacently (column 5, lines 38), without an intervening space symbol ('sp' is part of the words, see column 6, lines 5, lines 46-49; and column 6, lines 20-30).

***Prior art***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (see the references cited on PTO-892 Form attached herewith).

***Contact Information***

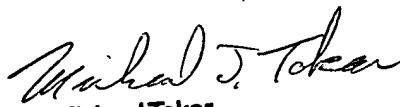
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571-272-1809. The examiner can normally be reached on 9:00 - 5:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Tokar can be reached on 571-272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KN  
May 23, 2005

  
Michael Tokar  
Supervisory Patent Examiner  
Technology Center 2800